

## Water Use Efficiency Report for 2016

Goals through 2016 were adopted by Council Resolution 2010-78, and need to be updated every six years. New goals were approved for reporting periods 2017 – 2022 by Council Resolution 2016-96 on 7/28/2016.

The Water Use Efficiency Report (WUE) was submitted to the Department of Health on 5/12/2017.

The following is the Annual Water Use Efficiency Performance Report for 2016.

**Adopted Supply Side Goal 1:** City wide leak survey will be completed every four years.

**Measurement:**

- Target: Complete distribution system leak survey to be recorded as a percentage of surface area surveyed.
- Continue program.
- Annual Report to Council and to Department of Health on June 15 of each year:

**Report of Progress Made in 2016:**

1. *In 2016 non-revenue water was reduced by 75,000,000 gallons. This is the fourth year that non-revenue water has been significantly reduced.*
2. *100% of the water system (including main lines, service lines, valves & hydrants) was leak detected and repaired in 2014/2015. No leak detection was performed in 2016 in anticipation of the complete meter replacement project (AMI).*
3. *The non-revenue water was 33.6% in 2012, 31.4% in 2013, 29.3% in 2014, 25.3% in 2015 & 25.1% in 2016. The water loss goal set by the Washington State Department of Health is <10%. Minimal percentage decrease is due to reduction of water produced by 269,000,000 gallons.*
4. *The Public Works Department will be replacing all water meters in 2017 which would help identify leaks on the customer's side, helping us meet our conservation goals, and recover lost revenue from inaccurate metering.*

**Adopted Supply Side Goal 2:** Replacement of approximately one mile of water main line and associated service lines annually.

**Assumptions:**

- Budget development will include funding through the City's Infrastructure Repair and Replacement Program (IRRP).

**Report of Progress Made:**

1. *The City continued with the Infrastructure Repair and Replacement Program (IRRP) in 2016 including portions of Alder Street – Merriam Street to Roosevelt Street and on Chestnut Street – 2<sup>nd</sup> Avenue to 9<sup>th</sup> Avenue. The City's Capital Improvement Program (CIP) in 2016 included water system improvements on portions of Blue Street and 8<sup>th</sup> Street.*

2. *The City replaced 1.82 Miles (9,603 linear feet) of main line pipe and approximately 164 services as part of these IRRP and CIP projects.*
3. *Additionally, City staff replaced 104 water services upgrading approximately 2,080 linear feet of galvanized service lines to copper or HDPE tubing. HDPE is the primary material used for water service at this time. Using this pipe material resulted in approximately \$50,000 to \$60,000 annually in cost savings, HDPE-eliminates external corrosion which is the main factor for leaks in our system.*

**Adopted Demand Side Goal 1:** Reduce summer water use 5% by 2016.

**Measurement:**

- Target: Continue program in 2016.
- Annual Report to Council and Department of Health by June 15 of each year.

**Report of Progress Made:**

1. *Summer water use decreased by 7% when compared to 2015.*
2. *Facts and tips on water usage and conservation are presented weekly by the City of Walla Walla, in partnership with Walla Walla Community College and the Walla Walla Union-Bulletin. During the irrigation season, the Walla Walla Water Watcher article is published weekly in the Union-Bulletin.*

**Adopted Demand Side Goal 2:** Reduce overall customer usage 2% per connection, by 2016.

**Measurement:**

- Target: Continue program in 2016.
- Annual Report to Council and Department of Health by June 15 of each year.

**Report of Progress Made:**

1. *Customer usage showed a decrease of 2.093% from 2015.*
2. *The City has stepped up notifying customers about possible leaks. In 2016, City staff checked all accounts every month that had a higher than normal water usage and notified customers immediately of possible leaks.*